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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,916 02/14/2002		Martin Pelletier	6670/0K309 1866	
75	90 06/09/2004		EXAMINER	
MR. S. PETER LUDWIG			KUHNS, ALLAN R	
DARBY & DA	RBY P.C.			
805 THIRD AVENUE			ART UNIT	PAPER NUMBER
NEWYORK, NY 10022			1732	

DATE MAILED: 06/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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V	Application No.	Applicant(s)				
Office Action Summany	10/076,916	PELLETIER, MARTIN				
Office Action Summary	Examiner	Art Unit				
The MAII INC DATE of this communication and	Allan Kuhns	1732				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 21 Ap	oril 2004					
	action is non-final.					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) 11-17 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/5/02.	4) Interview Summary (F Paper No(s)/Mail Date 5) Notice of Informal Pate 6) Other:					

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1.Applicant's election without traverse of Group I, claims 1-10 in Paper No. 4/21/04 is acknowledged.

- 2.Claims 11-17 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 4/21/04.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4.Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crump (5,340,433). Crump discloses or suggests the basic claimed apparatus structure including (1) a heating source for liquefying a heat sensitive pliable substance (note heated liquefier nozzle 226), (2) a pump for pumping out the heat sensitive pliable substance (note the pumping action of rollers 210, 212 described at column 14, lines 45-50), (3) a cooler for cooling the heat sensitive pliable substance (column 13, lines 46-51), (4) an applicator for ejecting the heat sensitive pliable substance from the apparatus and onto or into a forming tool, and (5) a positioning system for moving the applicator by successive application of a formed thread or strand (column 10, line 50) of heat sensitive pliable substance. The aspect that the instantly claimed apparatus is "for

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manufacturing a mold" is essentially a statement of an intended use for the apparatus rather than a structural limitation used to distinguish apparatus claims over prior art.

Crump teaches the use of wax as a heat sensitive pliable substance, as in claim 2, at column 6, line 66. Crump also teaches or suggests the use of a type of heat exchanger, as in claim 3, and an electric heating element or coil (column 10, line 48), as in claim 4. The examiner takes Official Notice that hot fluid circulating systems, as in claim 5, are known for providing heat exchange. Crump also teaches or suggests providing the pumping action rollers with an adjacent heating means, as in claim 6, the diameter of claim 7 and the structure of claims 8-10.

5.Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Kuhns whose telephone number is (571) 272-1202. The examiner can normally be reached on Monday to Thursday from 7:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni, can be reached on (571) 272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

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ALLAN R. KUHNS PRIMARY EXAMINER AU 1732

6-7-04